

172820

SCREENING SITE INSPECTION
IMPLEMENTATION PLAN
FOR

DOWNERS GROVE PUBLIC WELLS #6 AND #8

EPA ID NO. ILD981958382

BVWST PROJECT NO. 70500

NFRAP

August 26, 1991

For B&V Waste Science and Technology Corp.

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7/14/92
SLN

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1.0 Introduction

1.1 Confidentiality

THIS DOCUMENT IS CONFIDENTIAL. Due to the predecisional nature of the contained information, this document and its attachments are not to be released without prior approval of the U.S. Environmental Protection Agency (USEPA).

1.2 Preparation

This implementation plan (IP) has been prepared by B&V Waste Science and Technology Corp. (BVWST) under the ARCS contract with the USEPA (No. 68-W8-0064).

1.3 Objectives

The objectives of this implementation plan are:

1. determining CERCLA eligibility;
2. documenting the presence, quantity, and type, or absence of uncontained or uncontrolled hazardous substances on site; and
3. determining area and site characteristics.

1.4 Quality Assurance/Quality Control

Unless otherwise stated, QA/QC protocol for the site inspection activities is documented in the Quality Assurance Project Plan Region V FIT Conducted Site Inspections - June 12, 1991.

2.0 Site History

This section of the implementation plan presents information pertaining to the history of the site, including site operations, storage/disposal methods, areas of concern and current status. The Downers Grove Municipal Water Supply operations office is located at 801 Burlington Street, Downers Grove, IL 60515. A site location map is shown in Figure 1.

2.1 Site Operations

Site operations involve the management and maintenance of a public water supply.

2.2 Storage/Disposal Methods

Not applicable.

2.3 Areas of Concern

The major concern is that the Downers Grove Municipal Water Supply meet the Drinking Water Standards.

2.4 Current Status

The municipal system is still in operation. It is not known whether Wells #6 and #8 are being pumped.

3.0 Reconnaissance Findings and Observations

This information will be submitted following the reconnaissance visit.

4.0 Justification for an SSI

This segment of the implementation plan presents information supporting the need to conduct an SSI, including the threat posed to specific pathways and the population/environments potentially affected. Justifications for specific sampling recommendations are provided in segment 5.0.

4.1 Supporting Information

On July 10, 1985, Wells #6, #7, #8, #11, #12, and #14 were tested and found to contain organic solvents. A follow-up test was done on July 23, 1986 with organic solvents still found in wells #6 and #8. The specific organics and their concentrations are tabulated in Figure 2.

4.2 Pathways Threatened

The groundwater pathway is transporting organic solvents from unknown sources.

4.3 Populations/Environments Potentially Affected

Population affected estimates are considerable but unknown due to the fact many villages have cooperative agreements with Downers Grove for emergency use of water supply.

5.0 Proposed Sampling Plan

HRS data gaps and sampling recommendations are identified and were developed to obtain the needed information. Unless otherwise noted, the samples will be tested for the Target Compound List (TCL) and Target Analyte List (TAL) in the Quality Assurance Project Plan of June 12, 1991.

NOTE

Sample locations and/or number of samples can be changed or eliminated by the filed team leader because of site conditions existing during site inspection. The reason for any change or elimination will be documented by a change request and approved by the project manager.

5.1 Groundwater

After consultation with Downers Grove officials about the results of their testing as a part of the reconnaissance, we will develop a sampling plan.

6.0 Work Summary

The specific tasks to be completed during the screening site inspection are indicated below:

1. Interview site owner(s) representative(s).
2. Photograph the site and surrounding area.
3. Screen the site with detection devices for substance occurrence and safety information.
4. Collect a suite of environmental samples.
5. Dispose of investigative derived waste.

The health and safety protocol, which is detailed in the Site Health and Safety Plan (HASP), will be followed during the SI. We anticipate that workers will be properly protected using these Personal Protective Equipment (PPE) levels during the tasks or portions thereof:

<u>Task</u>	<u>Anticipated Level</u>
1	D
2	D
3	D
4	D
5	D

When performing the indicated task, the field team will be prepared to advance to the next level of personal protection above that listed.

7.0 Estimate of LOE Hours

1. Number of field team members:

Reconnaissance team is two persons.

Field sampling team is five persons.

2. Number of days for field work (actual onsite activities):

One day is allotted for reconnaissance/interview.

Two-and-one-half days are allotted for sampling.

3. Estimated Level of Effort (in person - hours)

a.	Pre Field Work:	100
b.	Travel:	16
c.	Field work:	118
d.	Post Field Work:	30
e.	Report Preparation:	<u>152</u>
	TOTAL:	416

8.0 Projected Schedule of Milestones

Milestone	Begin	Complete
Pre-Field Work	8/07/91	10/11/91
Travel/Field Work	8/18/91	11/22/91
Post-Field Work	11/25/91	12/27/91
Report Preparation	12/02/91	3/27/92

SECTION TWO
FIGURES

FIGURE 2
TABLE OF ANALYSES

Sample #	Date	Location	Results
1	7/10/85	Well #6	Dichloroethylene .2 ppb 1,1,1-Trichloroethane 4.5 ppb Trichloroethylene 11.7 ppb Tetrachloroethylene 3.6 ppb
2	7/10/85	Well #8	Trichloroethylene 7 ppb Tetrachloroethylene 4 ppb 1,1,1-Trichloroethane 2 ppb
3	7/23/86	Well #6	Trichloroethylene 5 ppb Tetrachloroethylene 4 ppb
4	7/23/86	Well #8	Tetrachloroethylene 6 ppb

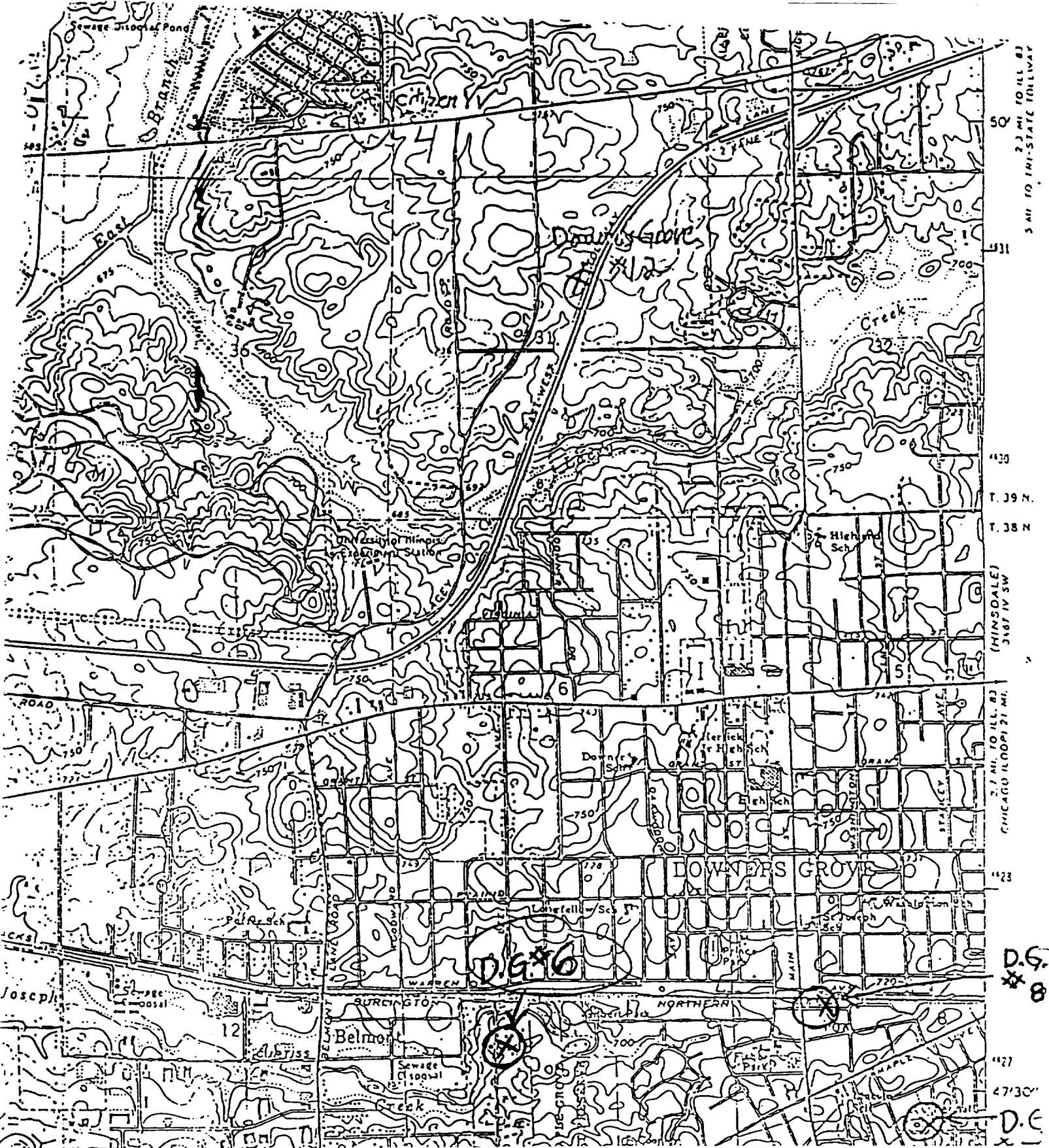


FIGURE 1
DOWNERS GROVE WELL LOCATION MAP

SECTION THREE

REFERENCES

1. Illinois Environmental Protection Agency, "CERCLA Preliminary Assessment Report," Downers Grove, IL Public Wells #6 and #8, July 30, 1987.